ELSEVIER

Coastal Engineering 37 (1999) 545–546

COASTAL ENGINEERING

www.elsevier.com/locate/coastaleng

Contents of volume 37

Research Papers

A morphodynamic model to simulate the seasonal closure of tidal inlets
R. Ranasinghe, C. Pattiaratchi and G. Masselink 1

The seasonal closure of tidal inlets: Wilson Inlet—a case study
R. Ranasinghe and C. Pattiaratchi 37

Wave evolution over submerged sills: tests of a high-order Boussinesq model
M.F. Gobbi and J.T. Kirby 57

Numerical modeling of Boussinesq equations by finite element method
Y.S. Li, S.-X. Liu, Y.-X. Yu and G.-Z. Lai 97

Wave deformation and vortex generation in water waves propagating over a submerged dike
C.-J. Huang and C.-M. Dong 123

Wave loads on rubble mound breakwater crown walls
F.L. Martin, M.A. Losada and R. Medina 149

Linear and nonlinear wave diffraction using the nonlinear time dependent mild slope equations
S. Abohadima and M. Isobe 175

Editorial

Introduction to this Special Issue
D. Prandle and L.R. Wyatt 193

Research Papers

High-frequency radars: physical limitations and recent developments
K.-W. Gurgel, H.-H. Essen and S.P. Kingsley 201

Wellen Radar (WERA): a new ground-wave HF radar for ocean remote sensing
K.-W. Gurgel, G. Antonischki, H.-H. Essen and T. Schlick 219

Methods for intercomparison of wave measurements
H.E. Krogstad, J. Wolf, S.P. Thompson and L.R. Wyatt 235

Evaluation of high frequency radar wave measurement
L.R. Wyatt, S.P. Thompson and R.R. Burton 259

Satellite wave measurements for coastal engineering applications
H.E. Krogstad and S.F. Barstow 283

Some recent developments in wave buoy measurement technology
H.E. Krogstad, S.F. Barstow, S.E. Aasen and I. Rodriguez 309

Use of nautical radar as a wave monitoring instrument
J.C.N. Borge, K. Reichert and J. Dittmer 331

Current measurement technology for near-shore waters
A. Lane, P.J. Knight and R.J. Player 343

Application of wave spectral information in marine forecasting
J. Guddal 369

Wave modelling in the PROMISE project
J. Monbaliu, J.C. Hargreaves, J.-C. Carretero, H. Gerritsen and R. Flather 379

PII: S0378-3839(99)00050-2

Numerical wave modelling at operational weather centres
J.-R. Bidlot and M.W. Holt 409
Monitoring surface waves in coastal waters by integrating HF radar measurement and modelling
C. de Valk, A. Reniers, J. Atanga, A. Vizinho and J. Vogelzang 431
Spectral wave data assimilation for the prediction of waves in the North Sea
A.C. Voorrips 455
Some observations of wave–current interaction
J. Wolf and D. Prandle 471
Estimation of 3-D current fields near the Rhine outflow from HF radar surface current data
C.F. de Valk 487
Shallow water bathymetry derived from an analysis of X-band marine radar images of waves
P.S. Bell 513
The estimation of shear stresses from near-bed turbulent velocities for combined wave–current flows
J. Wolf 529

Contents of volume 545